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CENSUS OF INDUSTRY

ADVANCE REPORT

on

THE STARCH AND GLUCOSE INDUSTRY

1919 - 1920

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Published by Authority of the Hon. J. A. Robb, M. P.,

Minister of Trade and Commerce.

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OTTAWA

February

1922

55-8-55

THE
OFFICE OF THE
ATTORNEY GENERAL
STATE OF TEXAS
AUSTIN, TEXAS

MEMORANDUM FOR THE ATTORNEY GENERAL
SUBJECT: [Illegible]

DATE: [Illegible]

BY: [Illegible]

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

OTTAWA, CANADA

Dominion Statistician: R. H. Coats, B.A., F.S.S.
 Chief, Census of Industry: J. C. Macpherson.

THE STARCH AND GLUCOSE INDUSTRY

1919 and 1920.

Ottawa, February, 1922:- The Dominion Bureau of Statistics presents herewith an advance report on the Starch and Glucose industry in Canada for the calendar years 1919 and 1920. Seven plants were in operation in 1919, three of which were in Ontario, two in Prince Edward Island and one each in the provinces of Quebec and New Brunswick. In 1920, only five plants were in operation, three being in Ontario, and one each in Quebec and Prince Edward Island, yet the value of production showed an increase over 1919 of \$425,912.

PRODUCTION.

The quantity and selling value at the factory of the various articles produced by the industry is presented in the accompanying table for the calendar years 1919 and 1920:-

Products	1919		1920	
	Quantity lb.	Sell. Value \$	Quantity lb.	Sell. Value \$
White corn starch	8,325,851	652,122	12,815,320	1,080,018
Waxy starch, (corn)	13,421,139	1,062,471	6,599,348	555,293
Potato starch	744,522	70,399	195,100	14,378
Chinese starch	704,770	24,893	454,300	51,605
Glucose or dextrose .	51,197,260	3,333,005	39,280,482	2,862,044
Grape sugar	2,297,044	151,772	2,445,051	192,809
Corn syrup	15,816,433	1,268,616	24,397,033	2,279,955
Corn oil	2,944,641	453,877	3,211,377	418,940
Waxen	31,588,290	814,765	30,605,074	860,288
Oil cake	964,000	25,925	172,213	5,648
All other products ..	-	35,628	-	28,207
TOTAL VALUE OF PRODUCTS		7,953,273		8,379,185

CAPITAL INVESTMENT.

The amount of capital invested in the industry is shown by items for each of the calendar years 1919 and 1920 in the following table. On account of two plants being inactive during 1920, there is a small decrease in capital investment when compared with 1919 -

Provinces	Land, build- ings and fixtures	Machin- ery and tools	Materials on hand, stocks in process, &c.	Cash, trad- ing and operating accts. etc.	Total Capital
1919	\$	\$	\$	\$	\$
Ontario	1,874,632	387,753	1,051,322	2,928,611	6,242,318
(New Brunswick ..)					
(P.E. Island &)	29,336	10,800	27,819	22,385	90,340
Quebec)					
CANADA TOTALS	1,903,968	398,553	1,079,141	2,950,996	6,332,658
1920					
Ontario	2,508,653	491,581	1,756,487	1,311,686	6,068,407
(Quebec and)					
(P.E. Island)	3,800	9,025	17,003	13,889	43,717
CANADA TOTALS	2,512,453	500,606	1,773,490	1,325,575	6,112,124

THE STARCH AND GLUCOSE INDUSTRY, 1919 and 1920.

EMPLOYEES, SALARIES AND WAGES.

The number of persons employed in the industry in the Dominion are shown by classes of employment and sex, together with the amounts paid in salaries and wages to each class for each of the calendar years 1919 and 1920, in the accompanying table:-

	No. of employees		Salaries and Wages paid \$
	Male	Female	
<u>1919</u>			
Officers, superintendents, managers	20	-	84,966
Clerks, stenographers, etc.	40	22	72,028
Employees on wages, average yearly number	561	87	604,647
Outside piece-workers	1	-	1,213
TOTALS	622	109	762,854
<u>1920</u>			
Officers, superintendents, managers	20	-	76,693
Clerks, stenographers, etc.	54	41	95,867
Employees on wages, average yearly number	694	75	889,544
TOTALS	768	116	1,062,104

Another classification of employees according to age and sex within specified groups of weekly wage payments is presented below for each year:-

Specified groups of Weekly wages	Over 16 yrs.		Under 16 years		Total Employees
	Male	Female	Male	Female	
	No.	No.	No.	No.	No.
<u>1919</u>					
Under \$5 per week	-	1	-	-	1
5 " but under \$10 per week	5	14	2	4	25
10 " " \$15 " "	30	66	13	8	117
15 " " \$20 " "	142	2	-	-	144
20 " " \$24 " "	169	-	-	-	169
24 " " \$28 " "	137	-	-	-	137
28 " " \$30 " "	53	1	-	-	54
30 per week and over	104	-	-	-	104
TOTALS	640	83	15	12	750
<u>1920</u>					
Under \$5 per week	4	-	-	-	4
5 " but under \$10 per week	3	-	-	-	3
10 " " \$15 " "	22	2	-	-	24
15 " " \$20 " "	32	3	-	-	35
20 " " \$24 " "	197	1	-	-	198
24 " " \$28 " "	104	-	-	-	104
28 " " \$30 " "	47	-	-	-	47
30 per week and over	240	-	-	-	240
TOTALS	649	6	-	-	655

THE STARCH AND GLUCOSE INDUSTRY, 1919 and 1920.

POWER STATISTICS.

The statistics relating to the kinds of power employed in the industry according to (a) the number of units of each kind of power, (b) the total horsepower according to manufacturers' rating and (c) the horsepower actually used, are presented in the following table for the years 1919 and 1920:

Kinds of power	Number of units	H.P. according to mfrs. rating	H. P. actually used.
<u>1919</u>			
Boilers	27	4,770	4,295
Engines, steam	13	1,680	1,055
gas and gasoline	1	30	30
oil	2	60	42
Hydraulic turbines or water wheels	2	115	50
Electric motors	119		1,590
TOTALS, ENGINES, TURBINE AND MOTOR H. P.	137	3,973	2,767
<u>1920</u>			
Boilers	26	4,970	4,045
Engines, steam	10	2,235	1,365
Electric motors	97	2,272	1,761
TOTALS, ENGINES, TURBINE AND MOTOR H. P.	107	4,507	3,126

FUEL CONSUMPTION.

The quantity and the cost value delivered at the factory or works of the various classes of fuel used are shown in the accompanying table by origin for the calendar years 1919 and 1920:-

Classes of fuel	Unit of measure	Canadian origin		Foreign origin	
		Quan.	Cost Val.	Quan.	Cost Val.
<u>1919</u>					
Bituminous coal	ton	58	\$ 549	47,156	\$ 279,970
Anthracite coal	"	-	-	486	5,498
Wood	cds.	600	900	-	-
Gas, artificial & natural	m. c. ft.	64	64	-	-
TOTAL COST OF FUEL			1,513		285,468
<u>1920</u>					
Bituminous coal	ton	37	380	44,696	416,377
Anthracite coal	"	-	-	1,557	19,655
Gasoline	gal.	792	396	-	-
Fuel oil	"	-	-	143,293	10,585
Gas, artificial & natural	m. c. ft.	16	18	-	-
TOTAL COST OF FUEL			794		446,617

MISCELLANEOUS EXPENSES.

The items of miscellaneous or overhead expenses during each of the years 1919 and 1920 are presented below:-

Items of Expense	1919	1920
Rent of offices, works and machinery	\$ 3,777	\$ 3,396
Rent of power	301	287
Insurance (yearly premiums)	19,769	42,505
Taxes, municipal, provincial, federal	81,965	25,932
Royalties, use of patents, etc.	3,494	1,502
Advertising expenses	118,167	97,276
Travelling expenses	28,409	44,779
Repairs to buildings and machinery	224,446	157,090
All other sundry expenses	313,446	372,739
TOTAL COST MISCELLANEOUS EXPENSES	793,774	745,506

THE STARCH AND GLUCOSE INDUSTRY, 1919 and 1920.

MATERIALS USED.

The quantity and cost value delivered at the factory or works of the principal materials used in the industry during the calendar years 1919 and 1920 are shown in the following table:-

Classes of materials	1919		1920	
	Quantity lb.	Cost value at works	Quantity lb.	Cost value at works \$
Corn	87,729,959	4,557,062	133,878,584	4,510,682
Corn starch for further manufacture	529,260	43,104	357,250	28,465
Potatoes	6,432,696	38,949	894,502	4,466
Sugar	349,141	35,399	383,659	65,334
Cane syrup for mixing	1,000,620	63,629	1,897,586	128,865
Boneblack	493,467	27,352	272,162	34,017
Hydrochloric acid	672,826	13,864	608,908	18,369
Sulphuric acid 50° Be	2,080	52	2,510	89
Other chemicals	-	33,639	-	24,748
Containers and labels	-	871,108	-	1,074,823
All other materials	-	64,545	-	46,752
TOTAL COST OF MATERIALS		5,709,203		5,936,610

PRINCIPAL STATISTICS BY PROVINCES.

The principal statistics relating to the industry are presented in the subjoined table for each of the calendar years 1919 and 1920:-

Provinces	Estab- lish- ments No.	Capital \$	Employees		Cost of Materials \$\$	Value of Products \$
			No.	Sal. & Wages \$		
1919						
Ontario	3	6,242,318	710	740,612	5,597,023	7,776,599
Quebec	4	90,340	21	21,242	112,180	176,674
P.E. Island & New Brunswick)						
TOTALS 1919	7	6,332,658	731	761,854	5,709,203	7,953,273
1920						
Ontario	3	6,068,407	874	1,044,089	5,875,539	8,285,132
Quebec and P.E. Island)	2	43,717	10	18,015	61,071	94,053
TOTALS 1920	5	6,112,124	884	1,062,104	5,936,610	8,379,185

THE STARCH AND GLUCOSE INDUSTRY, 1919 and 1920.

IMPORTS AND EXPORTS.

Tables showing the quantities and values of the principal items imported and exported for the calendar years 1919 and 1920 are herewith presented:-

(a) IMPORTS.

Items	1919		1920	
	Quan. Lb.	Value \$	Quan. lb.	Value \$
British gum, dry sizing, cream and enamel sizing	643,244	56,886	1,339,962	97,508
Dextrine, dry	2,682,833	213,179	2,831,650	219,395
Starch, including farina, corn starch, potato starch, potato flour and similar preparations	1,995,399	118,652	4,123,061	247,164
Glucose or grape sugar, glucose syrup, corn syrup or any syrup containing any admixture thereof ..	2,345,905	151,185	3,439,553	269,497
TOTAL VALUE IMPORTS		539,900		853,564

(b) EXPORTS

Items	1919		1920	
	Quan. Lb.	Value \$	Quan. lb.	Value \$
Corn starch			138,624	11,141
Potato starch	1,386,893	110,982	23,535	1,093
TOTALS		110,982		12,234

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